

Publish Data To The IBM Cloud

Team ID

Project Name

PNT2022TMID16091

Project – Smart waste management system for metropolitan city

```
pi@raspberrypi:~$ curl -O http://ftp.nl.debian.org/debian/pool/main/o/openssl/libssl1.0.0-1.0-1.debdebudeb
Resolving ftp.nl.debian.org (ftp.nl.debian.org)... 136.89.149.21, 2001:67c:2064:
a126::22
Connecting to ftp.nl.debian.org (ftp.nl.debian.org)[136.89.149.21]:80... connect
ed
HTTP request sent, awaiting response... 200 OK
Length: 807950 (800K) [application/x-debian-package]
Saving to: 'libssl1.0.0-1.0-1-1-dnbdub_arsnf.deb'

libssl1.0.0-1.0-1-100%[=====] 847.61K 350KB/s in 2.4s

2017-10-23 06:55:25 (358 KB/s) - 'libssl1.0.0-1.0-1-1-dnbdub_arsnf.deb' saved [
807950/807950]

pi@raspberrypi:~$ sudo dpkg -i libssl1.0.0-1.0-1-1-dnbdub_arsnf.deb
Selecting previously unselected package libssl1.0.0-arsnf.
(Reading database ... 115600 files and directories currently installed.)
Preparing to unpack libssl1.0.0-1.0-1-1-dnbdub_arsnf.deb ...
Unpacking libssl1.0.0-arsnf (1.0.1-1-dnbdub) ...
Setting up libssl1.0.0-arsnf (1.0.1-1-dnbdub) ...

pi@raspberrypi:~$ curl -LO https://github.com/ibm-messaging/iot-raspberrypi-rel
ases/download/1.0.2/iot-1.0-2-arsnf.deb
% Total % Received % Xferd Average Speed Time Time Time Current
100 264 0 264 0 0 0 0 0:00:01 --:--:-- 152
100 600 0 600 0 0 0 0 0:00:01 --:--:-- 407
100 210K 100 210K 0 0 20117 0 0:00:03 0:00:03 --:--:-- 48190

pi@raspberrypi:~$ sudo dpkg -i iot-1.0-2-arsnf.deb
(Reading database ... 115625 files and directories currently installed.)
Preparing to unpack iot-1.0-2-arsnf.deb ...
Unpacking iot (1.0-1) over (1.0-1) ...
Setting up iot (1.0-1) ...
Processing triggers for systemd (232-25-dnbdub) ...

pi@raspberrypi:~$ service iot status
* iot.service - LSB: IoT service
Loaded: loaded (/etc/init.d/iot; generated; vendor preset: enabled)
Active: active (running) since Mon 2017-10-23 06:56:25 UTC; 17s ago
Process: /usr/bin/systemd-generator(0)
CGroup: /system.slice/iot.service
└─2562 /usr/bin/iot /dev/null

Oct 23 06:56:24 raspberrypi systemd[1]: Starting LSB: IoT service...
Oct 23 06:56:24 raspberrypi iot[2562]: Starting the iot program
Oct 23 06:56:25 raspberrypi iot[2562]: **** IoT Raspberry Pi Sample has started ****
Oct 23 06:56:25 raspberrypi iot[2562]: config file not found. Going to Quickstart mode
Oct 23 06:56:25 raspberrypi iot[2562]: Running in Quickstart mode
Oct 23 06:56:25 raspberrypi systemd[1]: Started LSB: IoT service.
Oct 23 06:56:25 raspberrypi iot[2562]: Connecting to tcp://quickstart.messaging.internetofthings.ibmcloud.com:1883 with client Id: d1quickstart:lotsample-raspberrypi1b0270b0c6734
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful

pi@raspberrypi:~$ sscot
sscan: sscot command not found

pi@raspberrypi:~$
```

```
pi@raspberrypi:~$ pip install ibmiotf
Collecting ibmiotf
  Downloading ibmiotf-0.3.0.tar.gz (58kB)
    100% |#####| 61kB 510kB/s
Collecting dicttool==1.7.4 (from ibmiotf)
  Downloading dicttool-1.7.4.tar.gz
Collecting iso8601==0.1.10 (from ibmiotf)
  Downloading iso8601-0.1.12-py2.py3-none-any.whl
Collecting paho-mqtt==1.2 (from ibmiotf)
  Downloading paho-mqtt-1.3.1.tar.gz (80kB)
    100% |#####| 81kB 910kB/s
Collecting pytz==2017.2 (from ibmiotf)
  Using cached pytz-2017.2-py2.py3-none-any.whl
Collecting requests==2.5.0 (from ibmiotf)
  Downloading requests-2.18.4-py2.py3-none-any.whl (88kB)
    100% |#####| 92kB 1.0MB/s
Collecting requests-toolbelt==0.1.0 (from ibmiotf)
  Downloading requests-toolbelt-0.8.0-py2.py3-none-any.whl (54kB)
    100% |#####| 61kB 1.0MB/s
Collecting smtplib==0.10.2 (from ibmiotf)
  Downloading smtplib-0.11.0-py2.py3-none-any.whl
Collecting urllib3==2.0.1 (from requests==2.5.0->ibmiotf)
  Downloading urllib3-1.22-py2.py3-none-any.whl (132kB)
    100% |#####| 133kB 1.4MB/s
Collecting idna==2.7.0 (from requests==2.5.0->ibmiotf)
  Downloading idna-2.6-py2.py3-none-any.whl (56kB)
    100% |#####| 61kB 1.7MB/s
Collecting chardet==3.0.4 (from requests==2.5.0->ibmiotf)
  Downloading chardet-3.0.4-py2.py3-none-any.whl (133kB)
    100% |#####| 143kB 1.0MB/s
Collecting certifi==2017.4.17 (from requests==2.5.0->ibmiotf)
  Using cached certifi-2017.7.27.1-py2.py3-none-any.whl
Building wheels for collected packages: ibmiotf, dicttool, paho-mqtt
Running setup.py bdist_wheel for ibmiotf ... done
Stored in directory: /home/pi/.cache/pip/wheels/7e/f9/45/bbc33ad957e2f7b71ba80e316d0e5a83d9d735ad12e0c0418
Running setup.py bdist_wheel for dicttool ... done
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/96910633ac6a7b2a60a1376540150de5f468024078e13ccw
Running setup.py bdist_wheel for paho-mqtt ... done
Stored in directory: /home/pi/.cache/pip/wheels/20/d8/8d/acc8f289011b7be7de71de8ef8642f683be0313dfff0493
Successfully built ibmiotf dicttool paho-mqtt
Installing collected packages: dicttool, iso8601, paho-mqtt, pytz, urllib3, idna, chardet, certifi, requests, requests-toolbelt, smtplib, ibmiotf
Successfully installed certifi-2017.7.27.1 chardet-3.0.4 dicttool-1.7.4 ibmiotf-0.3.0 idna-2.6 iso8601-0.1.12 paho-mqtt-1.3.1 pytz-2017.2 requests-2.18.4 requests-toolbelt-0.8.0 urllib3-1.22 smtplib-0.11.0
pi@raspberrypi:~$
```

Simulations

[Import/Export simulation](#)

1/50 Simulations Running

[+ New Simulation](#)

Device Type
weather_device



1 Event



1 Device

weather_today

1 x

Create Simulated Device

Use Registered Device

Service Details - IBM Blu... IBM Watson IoT Platform

Secure https://geg14.internetofthings.ibmcloud.com/dashboard/#/boards/21cdc0e8-234c-45b5-93c8-2db4e2ce0206

IBM Watson IoT Platform QUICKSTART SERVICE STATUS DOCUMENTATION BLOG nisan@technovators... ID: (geg14)

myboard + Add New Card Settings

Line chart

10 seconds now

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeMCU	Device	Nov 9, 2022 12:36 AM

Identity Device Information Recent Events State Logs

Device ID 12345
Device Type NodeMCU
Date Added Nov 9, 2022 12:36 AM
Added By 113119ug07072@smartinternz.com
Connection Status Disconnected

Items per page 50 1-1 of 1 item 1 of 1 page

29°C Partly sunny 12:56 09-11-2022